

AIM Ann Report  
1893 to 1894

# ANNUAL REPORT

— OF THE —

## Auckland Institute

— AND —

## MUSEUM

FOR 1893-94.

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Adopted at the Annual Meeting held February 19, 1894.

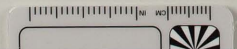
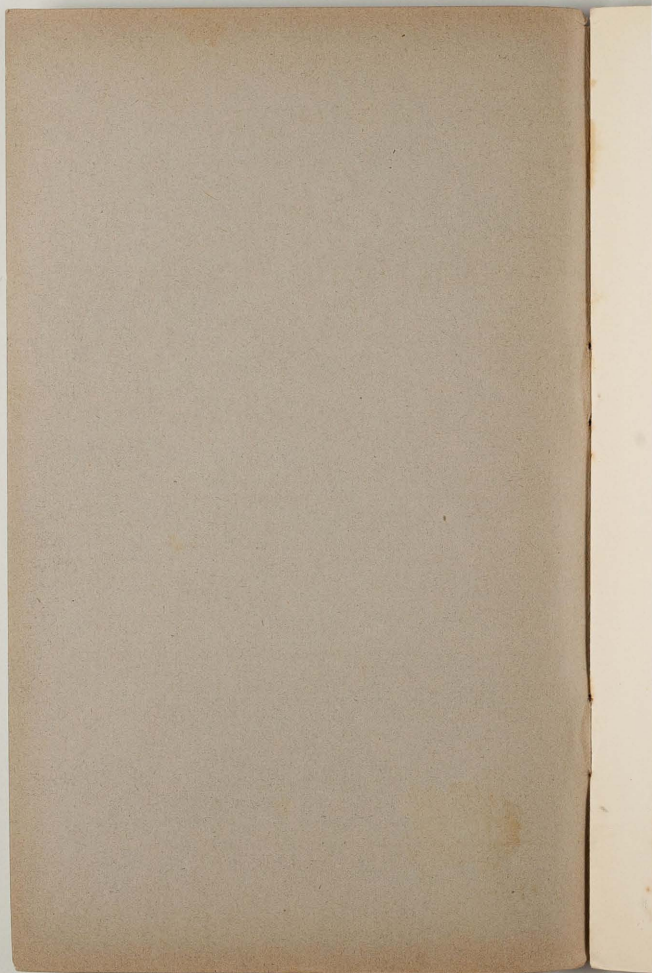
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Auckland:

H. BRETT, BOOK AND GENERAL PRINTER, SHORTLAND AND FORT STREETS.

MDCCCXCIV.

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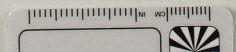
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ADOPTED AT THE ANNUAL MEETING HELD  
ON FEBRUARY 19th, 1894.

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AIM Ann Report  
1893 to 1894



÷ OFFICERS ÷  
OF THE  
AUCKLAND INSTITUTE

---

**President :**

J. H. UPTON, ESQ.

**Vice-President :**

PROFESSOR F. D. BROWN, F.C.S.

**Council :**

BATES, REV. J.

PEACOCK, T., ESQ.

BERRY, W., ESQ.

PURCHAS, REV. A., M.R.C.S., E.

COOPER, C., ESQ.

ROBERTON, E., M.D.

MACKECHNIE, E. A., ESQ.

SMITH, T. H., ESQ.

MUELLER, G., ESQ.

STEWART, J., ESQ., C.E.

WITHY, E., ESQ.

**Trustees :**

MACKECHNIE, E. A., ESQ.

SMITH, S. P., ESQ., F.R.G.S.

PEACOCK, T., ESQ.

**Secretary and Treasurer :**

T. F. CHEESEMAN, ESQ., F.L.S., F.Z.S.

**Auditor :**

W. GORRIE, ESQ.

THE FOLLOWING  
MAGAZINES & PERIODICALS

ARE CIRCULATED AMONG THE MEMBERS :

Quarterly Journal of Microscopical Science

The Ibis

Nature

Geological Magazine

Lancet

Scientific American

The Academy

Knowledge

Botanical Magazine

Annals of Botany

Gardeners' Chronicle

Chemical News

Engineering

Science Gossip

Electrical and Telegraphic Review

Annals and Magazine of Natural History

The Philosophical Magazine

American Journal of Science

The New Zealand Medical Journal



## REPORT OF THE COUNCIL.

**I**N accordance with the rules, the Council have now to submit to the members their Twenty-sixth Annual Report on the financial and general condition of the Institute, and its progress during the past year.

**Members.**—The number of members on the roll on the 1st of February, 1894, was 177, of which 13 are life members, and 164 ordinary subscribers. The number of new members elected during the year has been unusually small, amounting to six only. Sixteen names have been withdrawn—four from death, five from resignation, and seven from non-payment of subscription for more than two consecutive years. As the number on the 1st of February, 1893, was 187, there has been a net decrease of ten during the year.

It is the melancholy duty of the Council to notice the decease of Professor C. A. M. Pond, who was elected President of the Institute at the last annual meeting, and who died in October last, before completing his term of office. Professor Pond's connection with the Institute has been but short; but nevertheless his varied attainments and amiable personal qualities had secured the respect and esteem of the members generally. The Institute can ill afford to lose such an earnest and sincere worker; and the Council feel sure that his premature death will be deeply and widely regretted. Mention must also be made of the decease of Mr. G. B. Owen, who served on the Council in the early days of the Society; and of Sir William Fox, so well known from his intimate connection with those who laid the foundations of the Colony, and from the important part which he has taken in its political history.

**Finance.**—Full and detailed information respecting the financial position of the Institute will be found in the balance-sheets appended to the report, but some remarks of an explanatory nature will be useful here. The total income of the general account has been £944 5s. 6d. Last year the amount received was £805 13s. 9d., so that there has been an increase of £138 11s. 9d. during the year. The interest yielded by the invested funds of the Costley bequest has been £474 7s. 6d., while the Museum Endowment has contributed in rents and interest on investments £314 5s. 8d. The members' subscriptions have amounted to £129 3s. 0d., a sum slightly below that received in 1892-93. The total expenditure

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has been £890 10s. 11d., leaving a credit balance of £53 14s. 7d. in the Bank of New Zealand. The invested funds of the Institute amount at the present time to £12,489 3s. 10d., showing an increase of £1,118 13s. 0d. during the twelve months. It has been found advisable to vary the mode of investment of a large portion of this amount, with the object of placing it in a position of unchallenged security, from which a moderate but reliable income could be obtained. This has not been done without much and anxious consideration on the part of the Council, and they are confident that the result is in every respect satisfactory.

**Museum Endowment.**—The third and final payment of £1,000 on account of the Waikanae block has been received and duly invested. Some small sales, chiefly of township allotments, have been made, realising in all £184 11s. 6d. In addition to this, a sum of about £150, derived from sales effected some time back, and which was erroneously paid into the public account, is still in the hands of the Government, but will doubtless be handed over before long. The Council have been in constant communication with the Crown Lands Board respecting the utilisation of the remainder of the endowment: but, as has been pointed out in previous reports, there is little demand for country lands except under perpetual lease, and under that system the rents are so small, and are paid with such irregularity, that the Council are unwilling to sanction its adoption as a mode of dealing with the endowment.

**Meetings.**—Eight meetings have been held during the year, at which the following papers were read and discussed:—

1. Introductory Address:—Tennyson and Browning, a Retrospect of Victorian Poetry:—By the President, Prof. C. A. POND.
2. Note on the Puka Tree:—By Prof. F. D. BROWN.
3. Remarks on Colenso's Maori Dictionary:—By F. D. FENTON.
4. On the Geology of the Kuaotunu Goldfield:—By JAS. PARK, F.G.S.
5. Maori Implements and Weapons:—By T. H. SMITH.
6. The Liquefaction of Gases:—By Prof. F. D. BROWN.
7. Note on Recent Changes in the Crater of White Island:—By Capt. FAIRCHILD.
8. Notes on the Bats of New Zealand:—By T. F. CHEESEMAM, F.L.S.



9. Why should School Teaching Provide Only for the Counter and the Desk :—By J. ADAMS, B.A.
10. The Persistence of Savagery :—By the Rev. J. BATES.
11. Note on the Breeding Habits of the Bittern :—By P. E. CHEAL.
12. Public Ferneries :—By the Rev. P. WALSH.
13. Notes on the Course of the Waikato and Piako Rivers :—By L. CUSSEN.
14. New Species of *Aranea* :—By A. T. URQUHART.
15. On some Rare Minerals :—By JAS. PARK, F.G.S.
16. The British Empire in India :—By the Right Rev. W. G. COWIE, D.D., Bishop of Auckland.

**Museum.**—With the exception of a short period devoted to the annual cleaning, the Museum has been open to the public daily. The attendance of visitors has been satisfactory. On Sundays a register has been kept by the janitor, showing that 10,288 persons entered the building on that day, being an average of 197 for each Sunday. The largest attendance was 453 on July 30th, and the smallest 20 on July 23. On week days the visitors are only occasionally counted, but the daily average is believed to be about 100. Excluding the few days on which the Museum was closed, this would give an attendance of 30,500 on week-days, and a total of 40,788 for the year. It should be mentioned that the Museum is now open on all holidays, arrangements having been made for a special attendant on such occasions.

During the year the mammals and foreign birds have been entirely re-arranged, and considerable progress has been made towards supplying the chief sub-divisions and families with printed descriptive labels, accompanied with maps showing their geographical distribution. The small collection of moa bones belonging to the Museum has been carefully examined, and a series selected for public exhibition, including complete sets of the leg-bones of several of the species. A special show-case has been provided for the collection, and the whole of the specimens have been carefully mounted and supplied with printed labels.

The Ethnological Hall, and especially that portion of it devoted to the Maori collection, continues to attract a large share of the attention of visitors. As will be seen from the list of donations appended to the report, several additions of interest have been made to this department, in most cases by

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country settlers. It is satisfactory to find that the exertions made by the Society to secure for permanent exhibition in the Museum a collection that will worthily illustrate the manners and customs of the Maori race are being seconded in this manner, and the Council trust that such contributions will become more frequent in the future.

**Library.**—In last year's report attention was drawn to the crowded state of the Library, and the necessity existing that further accommodation should be provided without loss of time. After full consideration, the Council decided to transfer the Library into the Lecture-room, the wall space in which is sufficient to meet all requirements for several years to come. The change has been made at a comparatively small expenditure, and has not interfered in the slightest degree with the use of the room for the meetings of the Institute, while it has certainly provided a comfortable and commodious reading-room for the members. The total number of volumes in the Library at the present time is 3,392. The collection of books and pamphlets relating to New Zealand, for a large portion of which the Institute is indebted to the liberality of the late Mr. J. T. Mackelvie, now contains 749 different works, and is probably the most complete public collection of the kind in the colony.

**Little Barrier Island.**—The Council have always taken a strong interest in the proposed acquirement by the Government of the Little Barrier Island, for the purpose of preserving thereon some of the rarer birds of New Zealand, which otherwise will probably soon become extinct. In fact, the suggestion to set aside the island for this purpose was first made by Mr. F. D. Fenton, at a public meeting of the Institute held many years ago. At the same time the Council urged Sir R. Stout, then Premier of the Colony, to purchase the island from the native owners without delay. Since then the Institute has brought the matter under the notice of successive Governments and before the Australasian Association. Public opinion has been expressed in favour of the proposal in an unmistakeable manner, and of late years it has been warmly supported by Lord Onslow and Sir W. L. Buller. But the negotiations for the purchase of the island are still incomplete, and several of the native owners have yet to be dealt with. In the meantime several natives and Europeans are living on the island. Fires have been allowed to spread, and in the last week of January of this year a serious one was reported, which lasted at least a week. By degrees the island is being rendered less suitable for the purpose of a preserve. But in addition to this, the island has been visited by collectors, and

specimens of the very birds which it was hoped might survive have been shot and brought to Auckland. The Council much regret the continuance of this state of affairs. No time ought to be lost in completing the purchase, all residents should be removed, and the caretaker should be armed with full powers to prevent unauthorised persons from landing on the island.

In concluding the report, the Council wish to convey the thanks of the Institute to the numerous donors to the Museum and Library whose names are mentioned in the appended lists. They have also to express the hope that the members and the public generally will give that active support and encouragement which is due to an institution whose aim is to secure the advancement of knowledge, and the diffusion of scientific and practical information.

# The Treasurer in Account with the Auckland Institute.

FEBRUARY 14, 1893, TO FEBRUARY 14, 1894.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, Feb. 14, 1893	9	18	0	Books, Periodicals, Binding	76	2	5
Annual Subscriptions	129	3	0	Additions to Museum	35	19	0
Interest from the Costley Bequest	474	7	6	Museum Requisites	37	5	2
Rents and Interest transferred from Museum				Printing, Advertising, Insurance, Gas, Stationery, Postages, and other expenses	148	0	10
Endowment Account	314	5	8	Salaries	409	0	0
Miscellaneous Receipts	16	11	4	Balance of cost of fittings, etc., for new Hall	54	2	0
				Repairs to Lantern	53	8	2
				New Library Shelving	34	18	6
				Painting of Show-cases, Fencing of Allotment, Asphalting, etc.	32	4	0
				Miscellaneous Payments	9	10	10
				Balance in the Bank of New Zealand, Feb. 14, 1894	53	14	7
	£944	5	6		£944	5	6

FEBRUARY 16, 1894.

T. F. CHEESEMAN, TREASURER.

Examined and found to be correct.

W. GORRIE, AUDITOR.

# MUSEUM ENDOWMENT ACCOUNT.

FEBRUARY 14, 1893, TO FEBRUARY 14, 1894.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, Feb. 14, 1893	88	5	0	Insurance, Agency, and other Expenses	5	1	6
Endowments Sold	1,184	11	6	Land Tax on Mortgages	25	0	0
Rents of Endowments	109	5	2	Transferred to General Account	314	5	8
Interest on Investments	235	2	0	Transferred to Investment Account	1,100	0	0
				Balance in the Bank of New Zealand, Feb. 14, 1894	172	16	6
	<u>£1,617</u>	<u>3</u>	<u>8</u>		<u>£1,617</u>	<u>3</u>	<u>8</u>

FEBRUARY 16, 1894.

T. F. CHEESEMAN, TREASURER.

Examined and found to be correct.

W. GORRIE, AUDITOR.

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## Investments of the Auckland Institute.

	£	s.	d.
COSTLEY BEQUEST—			
On Mortgage on Freehold Security at 6 per cent. ..	4,000	0	0
On Mortgage on Freehold Security at 6 per cent. ..	1,500	0	0
On Mortgage on Freehold Security at 6½ per cent. ..	650	0	0
On Mortgage at 6 per cent. ..	300	0	0
Deposited with the Industrial and Provident Building Society at 5 per cent. ..	1,950	0	0
At Fixed Deposit in the Bank of New Zealand ..	200	0	0
NATHAN BEQUEST—			
Deposited in Auckland Savings Bank ..	130	16	8
MUSEUM ENDOWMENT—			
On Mortgage on Freehold Security at 5½ per cent. ..	3,200	0	0
On Mortgage on Freehold Security at 7 per cent. ..			
£900, less £300 written off for depreciation ..	600	0	0
Deposited in Auckland Savings Bank ..	106	3	8
At Fixed Deposit in Bank of New Zealand ..	300	0	0
Waiting Investment ..	270	0	0
INVESTMENT FUND FOR LIFE SUBSCRIPTIONS—			
Deposited in Auckland Savings Bank ..	182	3	6
	£12,489	3	10

T. F. CHEESEMAN,  
TREASURER.

Securities and documents produced and found to be in order.

W. GORRIE,  
AUDITOR.



# ADDITIONS & DONATIONS

TO THE

## ***LIBRARY AND MUSEUM.***

- Parliamentary Papers and Reports; New Zealand Hansard for 1893;  
New Zealand Statistics; New Zealand Official Year Book for 1893.  
—The New Zealand Government.
- Annual Report of the Colonial Museum and Laboratory; Broun's  
Manual of the New Zealand Coleoptera, parts 5, 6, 7.—The  
Director of the Geological Survey.
- Journal of the Polynesian Society, parts of Vols. 2 and 3.—The Society.
- Statistics of Tasmania for 1892; Walch's Tasmanian Almanac for  
1894.—The Colonial Secretary, Tasmania.
- Proceedings of the Royal Society of Victoria, vol. 5, new series.—The  
Society.
- Publications of the Department of Mines, New South Wales, for 1893.  
—The Department.
- Journal and Proceedings of the Royal Society of New South Wales,  
vol. 26.—The Society.
- Reports of the Department of Agriculture, Queensland.—The Depart-  
ment.
- Proceedings of the Australasian Association for 1892.—The Association.
- United States Consular Reports —The Secretary of State, United States.
- Insect Life, parts of Vols. 5 and 6; The Prairie Ground Squirrels of the  
Mississippi Valley; North American Fauna, No. 7; Contributions  
from the United States National Herbarium, Vols. 1 to 4; Bulletins  
3, 6, and 8 of the Botanical Division; Grasses of the South West,  
parts 1 and 2; Grasses of the Pacific Slope, parts 1 and 2; Hawks  
and Owls of the United States.—The Department of Agriculture,  
United States.
- Report of the Missouri Botanical Garden for 1892.—The Missouri  
Botanical Garden.
- Annual Report of the Museum of Comparative Zoology, Harvard,  
U.S.A.—Prof. A. Agassiz.
- Annual Report of the Public Museum of Milwaukee, U.S.A.—The  
Museum.
- Proceedings of the American Association for 1892.—The Association.
- Annals of the Astronomical Observatory of Harvard College, U.S.A.,  
parts of Vols. 19, 20, 31 and 40.—The Observatory.
- Report of the Smithsonian Institution for 1890; Proceedings of the  
United States National Museum, Vol. 14; and Bulletins No. 39,  
40.—The Smithsonian Institution.
- Eleventh Report of the State Mineralogist of California.—The State  
Mineralogist.

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- Twentieth Report of the Geological and Natural History Survey of Minnesota; Herrick's Mammals of Minnesota.—The State Geologist, Minnesota.
- Report of the Geological Survey of Canada, Vol. 5, parts 1 and 2; Catalogue of the Stratigraphical Collection of Rocks; Catalogue of section 1 of the Museum of the Geological Survey.—The Director of the Geological Survey, Canada.
- Annals of the Observatory of Rio Janeiro for 1892; Essay on the Climate of Brazil.—The Observatory.
- Monatsbericht der Deutschen Seewarte.—The Seewarte.
- Symon's Monthly Meteorological Magazine.—The Editor.
- Proceedings of the Royal Colonial Institute, Vol. 24.—The Institute.
- Journal of the Iron and Steel Institute, from 1875 to 1892, 37 volumes.—E. Withy.
- Bulletins of the Italian Entomological Society for 1892-93.—Prof. H. H. Giglioli.
- British Museum Catalogue of Birds, Vols. 20, 21, 22.—Purchased.
- Flower and Lydeker's Mammals, Living and Extinct.—Purchased.
- Annals and Magazine of Natural History, First Series, Vols. 1 to 4; Second Series, Vols. 1 to 20; Third Series, Vols. 1 to 6.—Purchased.
- Harvey's Phycologia Australica, 3 vols.—Purchased.
- A. Richard's Essay on the Flora of New Zealand.—Purchased.
- Murray's Handbook of New Zealand.—Purchased.
- Wawn's South Sea Islanders.—Purchased.
- Thirty-nine Books and Pamphlets on New Zealand.—Purchased.
- Historical Record of the Royal Horse Guards; Record of the Life Guards; Pickering's Races of Man; Abercrombie's Philosophy of the Moral Feelings.—J. Burtt.
- Handel's Music for the Oratorio of Judas Maccabæus, date 1740.—F. D. Fenton.
- Photographs of Horns of South African Antelopes.—Col. J. H. Bowker, Natal.
- Photograph of the Total Eclipse of the Sun, April, 1893.—Sir G. Grey.
- 
- Seven bird-skins from the Chatham Islands.—Purchased.
- Skins of *Platycercus unicolor*.—Captain Fairchild.
- Skin of *Platycercus unicolor*.—R. Bethune.
- Skin of Pied Stilt (*Himantopus leucoccephalus*), and Striped Rail (*Rallus philippensis*).—A. R. Millar.
- Kiwi (*Apteryx Mantelli*).—C. Franklin.
- Egg of Kiwi.—E. S. Brookes, jun.
- Eggs of Bittern (*Botaurus pascillitilus*).—P. E. Cheal.
- Skin of Morepork (*Spiloglaux nova Zealandia*).—H. Shrewsbury.
- Leg Bones of *Dinornis*.—S. H. Drew.
- Leg Bones of *Dinornis robustus*.—Prof. F. W. Hutton.
- Mouse with enormously enlarged teeth.—Prof. Brown.
- Green Lizard (*Naultinus elegans*).—Miss Thomson, A. Black.
- Tuatara Lizard (*Sphenodon punctatum*).—Miss Fisher.
- Pipe Fish, Green Lizard.—Captain Farquhar.
- Sea-horse (*Hippocampus abdominalis*).—J. C. King.
- Three New Zealand Fishes.—A. Simson.
- New Zealand Shells.—T. F. Cheeseman, E. B. Moss, G. W. Wright.
- New Zealand Land Shells.—H. Suter.
- New Zealand Spiders.—Leith Fraser.
- Wasps introduced at Hokianga.—J. Goodall.
- Peripatus nova Zealandia*.—C. H. Jenkins.

- Specimens of Molybdenite, Stibnite, and Asbestos.—J. M. Aston.  
Silver Ore from Okupu, Great Barrier Island.—Mr Sanderson.  
Brecciated Quartz with Silver from the Woodstock Mine, Thames.—  
J. A. Pond.  
Core of Crystallised Limestone from a diamond drill bore at Kamo.—  
R. Bell.  
Large block of Sulphur from White Island.—Captain Fairchild.  
Coal from Ngnugnuru.—J. Giffney.  
Silver Lead Ores from Zeehan and Dundas, Tasmania.—C. I. Blakey.  
Siliceous Sinter from Rotomahana.—C. Dacre.  
Carved Tewhatewha; Onewa Mere; two Greenstone Axes; two Green-  
stone Ornaments; Bone Point of Pigeon Spear; five Stone Axes;  
Borer; Fern Pounder; two Calabashes; bunch of Huia feathers.  
—S. H. Brookes, jun.  
Eel Basket found in a swamp near Cambridge.—G. H. Main.  
Ancient Paddles and Spade found in a swamp near Cambridge.—H. J.  
Kallender.  
Paraharaha, an instrument used for killing eels.—J. Medland.  
Koko, an instrument used in cultivating the Taro.—T. G. Sandes.  
Weight for Fishing Net.—S. B. Schmidt.  
Hair of a Maori found in a cave, together with the Obsidian Knives  
used in cutting it.—J. McElwain.  
Two Maori Spades; Fern Pounder; Kumara Shovel; Snare Stick. All  
found in the Mangawharo Creek.—C. Shipherd.  
Cartridges made by Maoris.—P. E. Cheal.  
Block of Obsidian; Stone Net Sinkers; Flax Beater.—H. M. Northcroft.  
Maori Stone Axes.—A. Petterd.  
Fern Pounder.—P. Black.  
Set of Tattooing Implements (uhi).—S. H. Drew.  
Carved Stone Implement found in Cloudy Bay.—J. Powsick.  
Stone Axes.—F. D. Fenton.  
Carved Box for holding the pigment used in tattooing.—R. H. Shaks-  
pear, jun.  
Cirgalese Sunshade.—A. Gordon Cuming.  
Ethnological Specimens from Buenos Ayres: Lasso, Bolas, Leg-strap,  
Whip, packet of Paraguay Tea, Cup and Strainer used in drinking  
it.—E. Ware, C.E., per C. Seegner.  
Indian Kookery.—H. F. Wagstaff.  
Eight Ethnological Specimens from Polynesia.—J. Burtt.  
Large Collection of Stone Axes from Mangaia and Rarotonga.—F. J.  
Moss.  
Two Stone Axes from Mangaia.—Makea Daniela.  
Model of Fijian Canoe.—F. Clark.  
Model of Santa Cruz Canoe; Food Bowl from San Cristoval; Drill used  
in boring Shell Money.—Rev. Mr Comins.  
Fijian Cannibal Fork.—S. L. Lazarus.  
Block of Timber with Kauri Gum.—Waitemata Sawmill Co.  
Teak Plank from the Wreck of the "Buffalo."—J. Featon.  
Ten Silver and Copper Coins; two pieces of Paper Money; piece of  
Timber from John Bunyan's House.—T. W. Kitt.  
Copper Coin.—B. Laurence.  
Copper Coin.—A. Petersen.  
Two Roman Coins.—J. Lund.  
£1 Note of the Bank of Auckland, seal of the bank.—C. S. George.

## LIST OF MEMBERS

*For the Year Ending March 31st, 1894.*

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS\*].

- |                                    |  |
|------------------------------------|--|
| Adams, J., B.A., Thames            | Cooper, C., Auckland                                 |
| Aickin, G., Auckland               | Cooper, T., Auckland                                 |
| Aitken, W., Auckland               | Cowie, Right Rev. W. G., D.D.,<br>Bishop of Auckland |
| Allen, F. B., M.A., Thames         | Cozens, G., Auckland                                 |
| Allen, T., Auckland                | Craig, E., Auckland                                  |
| Argall, W. H., Coromandel          | Cranwell, R., Auckland                               |
| Arnold, C., Auckland               | Cruickshank, D. B., Auckland                         |
|                                    | Cussen, L., Hamilton                                 |
| Bagnall, L. J., Thames             |  |
| Bakewell, R. H., M.D., Auckland    | Darby, P., Auckland                                  |
| Baker, Rev. S. W., Auckland        | Davies, Rev. H. S., Northcote                        |
| Ball, T., Onelunga                 | Davies, W., Whakatane                                |
| Ball, W. T., Auckland              | Dawson, F. W. E., M.R.C.S., E.,<br>Auckland          |
| Bartley, E., Devonport             | Dignan, P. L., Auckland                              |
| Bates, Rev. J., Devonport          | Dignan, Hon. P., Auckland                            |
| *Bates, T. L., Newcastle, N.S.W.   | Dufaur, E. T., Auckland                              |
| Batger, J., Auckland               |  |
| Beere, D. M., C.E., Gisborne       | Eastham, S., Devonport                               |
| Berry, W., Auckland                | Edson, J., Devonport                                 |
| Brett, H., Auckland                | Ehrenfried, L., Auckland                             |
| Brigham, J. M., Auckland           |  |
| Brock, A., Auckland                | Farmer, J., London                                   |
| Brookes, E. S., junr., Wharehine   | Fenton, F. D., Kaipara                               |
| Broun, Capt. T., F.E.S., Drury     | Fidler, W., Northcote                                |
| Brown, Prof. F. D., Auckland       | Firth, J. C., Auckland                               |
| Buchanan, J., Auckland             | Fowlds, G., Auckland                                 |
| Buchanan, W., Devonport            |  |
| *Buckland, A., Auckland            | Garlick, R., Auckland                                |
| Buckland, W. F., Remuera           | George, C. S., Auckland                              |
| Bull, G. W., Thames                | Girdler, Dr., Auckland                               |
| Burgess, E. W., Devonport          | Goldie, D., Auckland                                 |
| *Burton, Colonel, Lake Takapuna    | Goldsmith, E. C., Gisborne                           |
|                                    | Gorrie, W., Auckland                                 |
| Cameron, R., Auckland              | Grace, L. M., Taupo                                  |
| Campbell, H., Auckland             | Graham, W. K., London                                |
| Campbell, J. L., M.D., Auckland    | Gray, A., Remuera                                    |
| Campbell, Rev. J., Ponsonby        |  |
| Carr, R. C., Remuera               | Haines, C. H., M.D., F.R.G.S.,<br>Auckland           |
| Cheal, P. E., Auckland             | Haines, H., M.R.C.S., Auckland                       |
| Cheeseman, T. F., F.L.S., Auckland | Hardie, J., Auckland                                 |
| Ching, T., Parnell                 | Harding, S., C.E., Auckland                          |
| Choyce, H. C., Auckland            | Harris, J. D., Opuia                                 |
| Clifton, E., Auckland              | Haszard, H. D. M., Auckland                          |
| Cochrane, W. S., Auckland          |  |
| Colbeck, Captain, Epsom            |  |
| Combes, F. H., Auckland            |  |

Haultain, Hon. Col., Auckland  
 Heinitz, R., Auckland  
 Henton, J. S., Auckland  
 Hesketh, E., Auckland  
 Herbert, T., Parnell  
 Hill, W. J., Auckland  
 Hunter, A. J., C.E., Auckland

Johnson, H. D., Te Aroha

Kenderdine, J., Auckland  
 Kidd, A., Auckland  
 \*Kirk, T., F.L.S., Wellington  
 Kirker, J., Auckland  
 \*Kitt, T. W., Auckland

\*Leaf, C. J., F.L.S., F.G.S., London  
 Lennox, J. M., Auckland  
 \*Lennox, N. G., Sydney  
 Leys, T. W., Auckland  
 Lusher, J. H., Auckland

MacArthur, J. P., London  
 Mackechnie, E. A., Auckland  
 Mackellar, E. D., M.D., Parnell  
 MacMillan, C. C., Auckland  
 Mahoney, T., Auckland  
 Mair, Captain G., Foxton  
 Mair, R., Whangarei  
 Mair, Major W. G., Auckland  
 Malfroy, C., Rotorua  
 Martin, J., F.G.S., Auckland  
 Masefield, T. T., Auckland  
 \*Meinertzhagen, F. M., Napier  
 McCullough, Hon. W., Auckland  
 McLachlan, J. M., Auckland  
 McLaurin, J., Auckland  
 Mitchell, J., Auckland  
 Moat, W. P., Mahurangi  
 Moody, T. P., Kawakawa  
 Morton, H. B., Auckland  
 Morrin, T., Auckland  
 Monro, H. A. H., Parnell  
 Mueller, G., Auckland  
 Munro, G. C., Clevedon  
 Murdoch, D. L., Auckland  
 Murray, T. L., Thames

Nathan, L. D., Auckland

Orchiston, W., Auckland

Park, Jas., F.G.S., Thames  
 Patterson, G. W. S., Kaikohe  
 Paul, Rev. J. S., Onehunga  
 Payton, E. W., Devonport

Peacock, T., Auckland  
 Pond, J. A., Auckland  
 Purchas, Rev. A. G., M.R.C.S., E.,  
 Auckland

Reed, J. R., Kawakawa  
 Reid, J., Auckland  
 Robertson, E., M.D., Auckland  
 Rose, R., Auckland  
 Russell, Jas., Auckland  
 Russell, J. B., Auckland  
 \*Russell, T., London

Scheidel, Dr., Thames  
 Scott West, Rev. R. J., Mt. Eden  
 Seddon, W., Rotorua  
 Seegner, C., Auckland  
 Shaw, H., Auckland  
 Shrewsbury, H., Parnell  
 Sinclair, A., Auckland  
 Smith, A. R., Auckland  
 Smith, H. G. S., Wellington  
 \*Smith, S. P., F.R.G.S., Wellington  
 Smith, T. H., Auckland  
 Steele, T. J., Devonport  
 Steel, T., Melbourne  
 Stewart, J., C.E., Auckland  
 Sylow, P., Chelsea

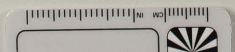
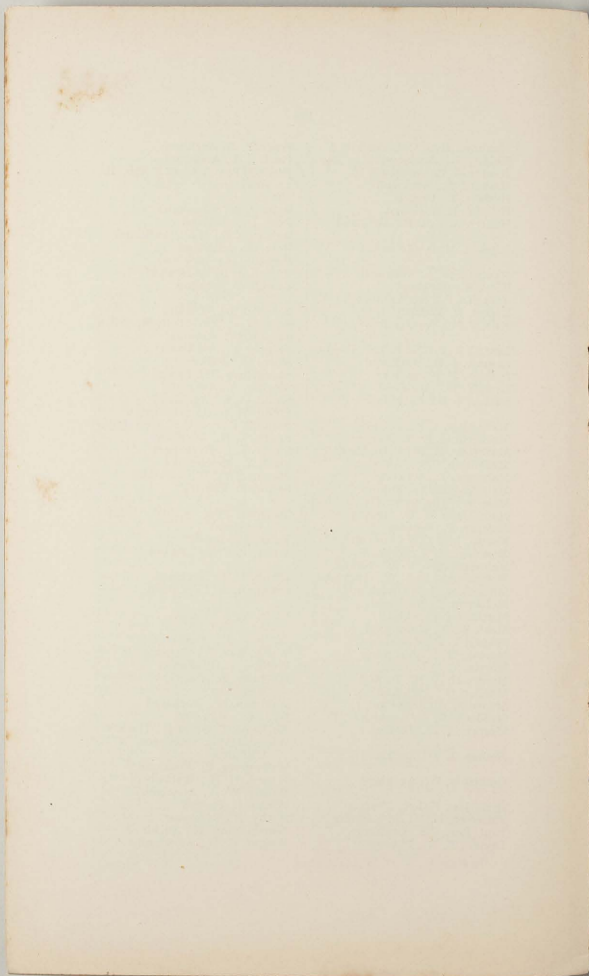
Thomas, Prof. A.P.W., F.L.S.,  
 Auckland  
 \*Tinne, H., London  
 Tinne, T. F. S., London

Upton, J. H., Auckland  
 Urquhart, A. T., Karaka

Vaile, S., Auckland

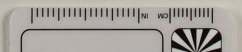
Wade, H. G., Auckland  
 Walsh, Rev. P., Waimate  
 Webster, J., Hokianga  
 \*Weetman, S., F.R.G.S.,  
 Blenheim  
 Wildman, W., Auckland  
 Will, W., Auckland  
 Williams, T. O., M.D., Thames  
 Williams, Ven. Archdeacon W. L.,  
 Gisborne  
 Williamson, C., Auckland  
 Wilson, H. M., Warkworth  
 Wilson, W. S., Auckland  
 Winks, J., Parnell  
 \*Withy, E., Remuera  
 Worthington, H., Auckland  
 Wright, G. W., Auckland

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